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Worldwide Literature of the *Lygus* Complex (Hemiptera: Miridae), 1900-1980

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ABSTRACT

Graham, H. M., A. A. Negm, and L. R. Ertle. 1984. Worldwide literature of the Lygus complex (Hemiptera: Miridae), 1900-1980. U.S. Department of Agriculture, Bibliographies and Literature of Agriculture No. 30, 205 p.

This bibliography includes over 2,400 citations to the literature published from 1900 to 1980 on members of the genus Lygus and closely related genera throughout the world. It is indexed by subject area, decade of publication, and the continent where the research was conducted.

KEYWORDS: Agnocoris, entomology, Hemiptera, insects, Lygocoris, Lygus, Miridae, Orthops, plant pests, Taylorilygus.

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Compiled by

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I

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Worldwide Literature of the *Lygus* Complex (Hemiptera: Miridae), 1900-1980

Compiled by H. M. Graham, A. A. Negm, and L. R. Ertle^{1/}

INTRODUCTION

The *Lygus* complex (*Lygus* and related genera) consists of destructive pests of a variety of crops throughout the world. This bibliography was developed to provide sources of background information for researchers and others interested in these insects. The search of the literature was keyed to the genus *Lygus*, although some closely related genera were found and included. Because of taxonomic changes, some of the references on *Lygus* may include the genera *Agnocoris*, *Orthops*, *Taylorilygus*, and *Lygocoris* formerly in *Lygus* (Kelton 1975).^{2/}

This bibliography comprises work undertaken by Negm, in cooperation with Graham under a PL-480 project (EG-ARS-83), and a project done independently by Ertle. Graham combined their references, completing the verification with the original articles, seeking new articles, and organizing the final publication.

During 1980 and 1981, Scott published a similar bibliography and a supplement.^{3/} However, since the present authors had additional references and a few errors were detected in Scott's publications, they decided to continue with their publication. In addition, Scott provided them with many references not included in his bibliography.

As an aid to the reader, the current bibliography has been indexed by rather broad subject areas (also included in the bibliography itself), the decade of publication, and the

^{1/} Respectively, Biological Control of Insects Laboratory, Agricultural Research Service, U.S. Department of Agriculture, 2000 East Allen Road, Tucson, Ariz. 85719; Department of Plant Protection, College of Agriculture, Assiut University, Assiut, Egypt; Beneficial Insects Research Laboratory, ARS, USDA, 501 South Chapel Street, Newark, Del. 19713.

^{2/} Kelton, L. A. 1975. The lygus bugs (genus *Lygus* Hahn) of North America (Heteroptera: Miridae). Memoirs of the Entomological Society of Canada 95, 101 p.

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continents where the work was done. Since the bibliography is intended for an English-speaking audience, titles in other languages have been translated into English.

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4/ The authors are responsible for the compilation and the editing of the references; the Department is responsible only for the publication of this bibliography.

Key to subject codes: B - Biocontrol; C - Chemical, cultural, and other controls; D - Damage; E - Ecology, biology, and physiology; L - General literature; R - Host plant resistance; T - Taxonomy and morphology.

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1660	1711	1788	1831	1886	1888	1900	1916	1921	2049	2053
2054	2093	2111	2114	2115	2116	2117	2118	2120	2138	2139
2171	2199	2200	2230	2293	2312	2342	2345	2360		

1971 to 1980

24	25	89	94	96	100	120	151	166	167	171
174	175	226	231	296	303	320	321	322	326	328
329	330	333	334	353	354	356	372	475	476	490
516	562	563	564	641	657	658	659	660	662	708
710	712	713	714	715	716	719	722	751	757	758
786	794	799	814	816	819	822	827	830	872	930
931	986	996	997	1009	1016	1040	1042	1048	1049	1051
1052	1131	1156	1167	1182	1185	1192	1302	1327	1347	1370
1373	1376	1377	1395	1409	1425	1446	1454	1471	1472	1473

1476 1477 1542 1559 1580 1583 1593 1622 1645 1657 1658
1661 1678 1679 1688 1689 1692 1693 1700 1706 1707 1723
1792 1811 1836 1841 1882 1883 1890 1901 1902 1903 1904
1905 1906 1907 1908 1932 1956 2046 2051 2052 2060 2069
2083 2085 2089 2113 2127 2184 2201 2227 2243 2295 2298
2349 2353 2355 2356 2359 2374 2391 2426 2428 2442 2452
2453 2461 2466

South America 1931 to 1940

600

1941 to 1950

1540

1951 to 1960

1503

Worldwide 1951 to 1960

78 79

1961 to 1970

446 2237

1971 to 1980

1444 1887 2357

Taxonomy and
Morphology

Africa 1911 to 1920

1672

1931 to 1940

424 1854

1941 to 1950

2153

1951 to 1960

1682 2456

1961 to 1970

1255 1257 1683

1971 to 1980

1258 2451

Asia and Pacific

1900 to 1910

643 915 1244 1728 1730 1732 2447 2448 2449

1921 to 1930

423 1063

1931 to 1940

964 1087 1246

1941 to 1950

924 925

1951 to 1960

351 392 863 962 1252 1899 2280

1961 to 1970

1134 1135 1253 1254 1256 1511 2282

1971 to 1980

687

Europe

1911 to 1920

121 752 916 1548 1636 1957

1921 to 1930

559 653 917 1244 2040

1931 to 1940

111 430 967 1250 1429 1664 2271 2427

1941 to 1950

145 425 753 1136 1137 1138 1139 1140 1141 1142 2272
2273 2274 2275 2276 2445

1951 to 1960

395 426 445 1064 1213 1214 1215 1216 1550 1551 1699
1726 1793 1794 1891 2007 2008 2010 2011 2146 2277 2278
2279 2284

1961 to 1970

163 517 518 1045 1046 2066 2282 2285 2400 2401

1971 to 1980

1121 1122 1698 1737 2283 2379 2402

North America

1900 to 1910

144 304 1731 1734 2232

1911 to 1920

146 266 916 1073 1074 1075 1076 1077 1078 2234 2235
2467

1921 to 1930

216 281 452 917 1079 1080 1081 1083 1084 1086 1597
2335 2450 2459

1931 to 1940

502 1000 1088 1738 1927 2236

1941 to 1950

331 503 561 642 1089 1090 1091 1941 2027 2416

1951 to 1960

493 579 634 679 939 1032 1033 1034 1092 1451 1502
1754 1942 1943

1961 to 1970

494 1093

1971 to 1980

13 14 15 501 794 815 830 1036 1037 1038 1039
1040 1041 1042 1645 2453 2462

South America

1900 to 1910

1729

1931 to 1940

2236

1951 to 1960

390

1961 to 1970

394

Worldwide

1921 to 1930

1937

1951 to 1960

389 391 393 1035 1217 2281

1961 to 1970

396 427 446 1221 1222

1971 to 1980

717 1861

Damage

Africa

1921 to 1930

788 789 1201

1931 to 1940

30	31	32	761	762	763	780	790	791	792	793
800	968	1204	1205	1206	1211	1396	1517	1611	1854	2045

1941 to 1950

75	157	158	289	480	504	599	826	918	969	970
971	972	973	974	976	1208	1212	1612	1613	1615	1616
1617	1619	1680	1681	2074	2084	2313	2314			

1951 to 1960

132	244	388	442	443	477	481	515	681	813	943
944	945	975	1059	1277	1308	1445	1609	1610	1618	

1961 to 1970

332	478	484	487	956	957	1435	1718	1756	1845	2106
2419	2454									

1971 to 1980

119 536 1716 1717 1727

Asia and Pacific

1921 to 1930

423 1146 2229

1931 to 1940

1026 1027 1911 2421

1941 to 1950

960 985 1018 1023 1223 1224 2420

1951 to 1960

962 1623 2320

1961 to 1970

2 462 876 1513 1725 1984 2178 2179

1971 to 1980

700 886 887 892 893 894 896 897 900 901 902
903 908 909 2125

Europe

1900 to 1910

1720 1758 1859 2161 2162 2163 2222

1911 to 1920

384 385 449 592 593 594 648 649 651 913 1243
1441 1447 1468 1759 1957 1958 2203 2204 2205 2206 2223
2224 2261

1921 to 1930

43 152 153 217 224 233 553 609 650 652 653
741 742 866 867 868 936 1128 1153 1379 1387 1489
1557 1558 1570 1571 1573 1634 1637 1638 1639 1665 1687
1708 1721 1806 1818 1852 1855 1959 1960 1961 2017 2030
2032 2037 2040 2158 2164 2165 2168 2176 2240 2241 2269
2297 2319 2435 2437

1931 to 1940

3 111 113 137 246 387 506 513 598 632 654
655 699 718 835 836 865 869 937 978 1123 1129
1175 1176 1380 1496 1531 1532 1543 1572 1574 1635 1709
1774 1856 1962 2019 2022 2028 2170 2259 2386 2438

1941 to 1950

70 72 76 140 219 747 823 1381 1382 1842 1843
1844 1857

1951 to 1960

80	505	607	668	771	824	838	839	935	1005	1021
1053	1054	1066	1384	1470	1478	1514	1522	1523	1524	1526
1527	1534	1552	1813	1858	1860	1917	2097	2137	2246	2249
2270	2398									

1961 to 1970

83	159	162	383	549	635	684	749	1168	1492	1508
1663	1670	1686	1695	1712	1892	1944	1985	1986	2004	2140
2247	2248	2376	2387							

1971 to 1980

105	223	239	240	241	335	511	514	536	582	595
608	629	630	685	686	729	748	825	840	1120	1172
1358	1360	1388	1493	1528	1533	1894	1895	1898	1922	1923
2003	2134	2135	2141	2208	2251	2252	2253	2255	2258	

North America

1900 to 1910

177	178	276	277	278	294	428	453	454	455	584
585	631	689	690	726	727	858	919	1269	1279	1486
1588	1600	1601	1603	1715	1977	1978	2150	2151	2300	2301
2302	2324									

1911 to 1920

40	41	42	101	122	143	256	257	258	259	260
261	262	264	267	269	275	279	280	337	338	339
340	345	457	458	463	468	469	499	520	537	544
596	636	691	692	693	774	803	804	805	817	832
920	1072	1199	1270	1271	1311	1392	1457	1458	1459	1460
1461	1464	1545	1589	1590	1591	1592	1701	1797	1798	1822
1848	1910	1987	2070	2071	2072	2073	2194	2195	2196	2197
2287	2305	2306	2322	2463						

1921 to 1930

44	45	47	48	50	51	52	142	271	272	273
274	282	284	288	298	299	341	342	343	346	347
451	452	470	483	496	497	524	571	586	622	623
637	675	697	698	701	723	724	728	806	807	818
821	833	921	940	941	942	955	961	965	1060	1143
1144	1284	1286	1313	1345	1346	1356	1463	1536	1537	1538
1565	1642	1643	1673	1674	1675	1799	1800	1801	2023	2024
2160	2288	2289	2292	2309	2327	2328				

1931 to 1940

5	29	53	55	56	58	59	60	61	62	64
65	179	213	254	285	286	287	344	357	374	375
376	377	387	397	398	399	419	420	431	466	471
498	525	543	572	628	676	677	678	694	725	730
731	801	808	810	811	841	851	875	947	948	984
999	1024	1061	1149	1150	1151	1170	1171	1272	1273	1287
1292	1293	1297	1315	1317	1319	1322	1357	1427	1497	1546
1654	1677	1739	1741	1775	1789	1802	1810	1909	1925	1926
1930	1931	1966	1988	1989	1990	1992	1993	1994	1995	2002
2076	2077	2121	2122	2147	2172	2211	2212	2213	2214	2215
2262	2263	2307	2323	2330	2424	2425				

1941 to 1950

8	21	67	68	69	74	98	135	136	215	227
378	379	380	381	382	408	410	411	412	414	456
523	528	555	570	573	588	590	591	597	603	610
615	617	620	624	626	627	645	672	683	735	737
779	781	802	845	846	852	853	854	855	856	873
874	933	934	987	988	989	1095	1109	1110	1147	1157
1158	1227	1228	1274	1275	1276	1280	1306	1307	1310	1323
1324	1328	1329	1330	1353	1363	1364	1365	1431	1432	1449
1462	1466	1467	1491	1521	1553	1587	1624	1631	1757	1784
1787	1790	1803	1817	1849	1850	1889	1928	1935	1948	1964
1970	1972	1973	1979	1982	1996	1997	1998	1999	2001	2033
2061	2079	2080	2082	2148	2209	2210	2216	2217	2218	2291
2308	2321	2326	2329	2361	2362	2364	2365	2367	2373	2381
2394	2395	2397	2403	2404	2406	2407	2409	2411	2412	

1951 to 1960

19	33	77	81	102	228	292	358	359	362	388
416	417	436	492	529	533	535	542	547	552	611
612	613	616	618	640	669	739	744	784	860	950
990	992	1058	1069	1107	1112	1126	1231	1238	1288	1326
1331	1332	1333	1334	1335	1336	1337	1338	1340	1367	1368
1398	1399	1401	1405	1436	1437	1438	1439	1440	1480	1481
1495	1625	1626	1628	1649	1666	1691	1710	1742	1743	1752
1753	1755	1918	1940	1945	2035	2043	2086	2155	2315	2363
2390	2393	2432								

1961 to 1970

23	84	85	87	103	128	129	147	150	180	222
237	290	364	365	367	368	369	370	488	500	545
614	639	695	820	837	849	923	926	932	1001	1071
1114	1225	1232	1289	1294	1295	1339	1342	1426	1499	1501
1510	1544	1627	1650	1653	1705	1724	1772	1791	1833	1837

1838	1862	1876	1877	1886	1888	1916	1924	2048	2112	2119
2126	2156	2199	2200	2310	2341	2344				

1971 to 1980

89	90	91	123	166	209	211	212	309	372	386
421	472	490	519	554	563	564	578	682	705	720
756	758	759	760	767	775	782	783	797	798	819
834	928	929	931	952	986	996	997	1002	1003	1008
1016	1048	1050	1065	1161	1181	1182	1185	1186	1296	1302
1343	1371	1372	1373	1374	1376	1377	1389	1390	1391	1409
1421	1542	1559	1560	1576	1578	1580	1582	1583	1584	1645
1651	1678	1690	1761	1763	1812	1839	1840	1841	1866	1867
1874	1879	1967	2025	2044	2050	2067	2068	2083	2142	2159
2185	2188	2201	2334	2349	2351	2382	2414	2418	2442	2452
			2466							

South America

1931 to 1940

600

1941 to 1950

1540

1951 to 1960

1541

Worldwide

1931 to 1940

1963

1961 to 1970

2237

1971 to 1980

1184 1444 1881 1887

Biocontrol

Africa

1931 to 1940

1205

1941 to 1950

504 510 1512

1951 to 1960

481

1961 to 1970

1845

Asia and Pacific

1931 to 1940

2421

1971 to 1980

527 2133

Europe

1900 to 1910

1455

1921 to 1930

1198 2440

1931 to 1940

255

1941 to 1950

1140

1951 to 1960

26 1219 1303 1938 2455

1961 to 1970

10 182 185 186 187 1220 1740 2192

1971 to 1980

133 134 188 190 191 192 193 194 195 196 197
198 199 200 201 202 203 204 305 1264 1266 1608
2193 2198 2441 2457

North America

1900 to 1910

1602

1911 to 1920

467 468

1921 to 1930

46 274 538 539 540 541 961 1563 1714 2294

1931 to 1940

58 66 179 1102 1475 1633

1941 to 1950

291 1103 1104 1106 1111 1539 1786 2149 2422

1951 to 1960

33 679 2368

1961 to 1970

165 297 312 314 315 405 406 407 433 434 461
534 946 1010 1145 1188 1261 1262 1263 1314 1400 1529
1585 1748 1913 2034 2088 2092 2094 2103 2225 2343 2369
2370 2460

1971 to 1980

24 25 123 176 295 306 323 327 464 465 530
531 532 658 660 661 755 756 912 922 931 996
997 1130 1187 1210 1234 1235 1236 1265 1267 1268 1302
1361 1504 1629 1630 1676 1722 1808 1832 1880 1914 1915

1933 1934 2047 2090 2091 2095 2130 2143 2144 2145 2242
2244 2245 2348 2352 2354 2358 2383 2439 2443 2446 2452
2457 2458 2465

Worldwide

1931 to 1940

435

1941 to 1950

2173

1961 to 1970

2174 2175

1971 to 1980

1047 1887 2444

Host Plant
Resistance

Africa

1931 to 1940

763 780 793 968 1611 2045

1941 to 1950

969 970 976 1612

1951 to 1960

336 1609 1610

1961 to 1970

2106 2108

1971 to 1980

1344

Europe

1971 to 1980

1893 1896 2135

North America

1931 to 1940

1 1316 1317 1318 1567

1941 to 1950

215 1521

1951 to 1960

1399 1568

1961 to 1970

237 1001 1247 1248 1506 1660 1705 1878 2126 2138 2139

1971 to 1980

91	99	131	149	172	173	176	206	232	307	348
349	768	828	829	931	951	952	979	980	981	982
1002	1003	1132	1154	1163	1164	1165	1166	1182	1183	1195
1239	1242	1249	1283	1393	1394	1410	1411	1412	1420	1421
1422	1423	1424	1485	1488	1507	1659	1773	1834	1836	1868
1869	1870	1871	1872	1884	2181	2182	2185	2186	2187	2188
2189	2316	2317	2392							

Chemical, Cultural,
and Other Controls

Africa

1931 to 1940

31 54 762 763 793 1202 1203 1204 1205 1207 1516
1611

1941 to 1950

289 480 504 970 971 1350 1413 1612

1951 to 1960

82 245 442 443 481 515 813 1434 1609 1610

1961 to 1970

35 332 478 484 485 486 487 956 957 958 1845
2107 2109

1971 to 1980

119 536 1716 1717

Asia and Pacific

1921 to 1930

1146

1931 to 1940

2421

1941 to 1950

960 1018 1223

1951 to 1960

1623 2320

1961 to 1970

462 1984

1971 to 1980

1359

Europe

1900 to 1910

2161 2162 2163

1911 to 1920

385 1759 1804 1958 2239

1921 to 1930

43	110	152	224	601	609	650	653	866	1062	1153
1489	1573	1634	1665	1847	1852	2029	2030	2032	2037	2040
2158	2164	2165	2166	2176	2241	2297	2385	2434		

1931 to 1940

63	113	115	116	117	118	137	218	220	246	252
387	654	655	865	1028	1123	1443	1543	1635	1846	2020
2021	2031	2438								

1941 to 1950

71	72	73	219	1382	1469	1842	1843	1844	2415	
----	----	----	-----	------	------	------	------	------	------	--

1951 to 1960

80	450	505	607	668	771	935	1021	1053	1470	1518
1813	1858	2246	2267	2270						

1961 to 1970

83	159	161	168	383	549	557	1056	1351	1352	1508
1519	1663	1670	1671	1830	1892	2004	2140	2247	2376	2387

1971 to 1980

105	223	240	241	242	243	335	511	514	536	581
582	633	721	748	750	825	840	954	1019	1117	1118
1119	1124	1360	1388	1515	1533	1735	1782	1805	1823	1828
1829	1898	2003	2124	2135	2238	2250	2253	2254	2256	2431

North America

1900 to 1910

177	276	294	428	453	454	583	584	631	689	690
859	919	1269	1282	1588	1601	1641	1977	2129	2301	2302
2324										

1911 to 1920

39	41	42	101	122	143	258	259	260	261	262
263	264	265	267	268	269	280	339	468	499	560
691	692	693	740	774	804	805	832	1197	1199	1278
1311	1392	1452	1459	1464	1590	1591	1592	1822	1824	1827
2305	2306	2322	2339							

1921 to 1930

47	49	50	52	272	274	282	283	284	288	346
451	452	496	497	622	637	698	778	806	807	812
833	965	1284	1312	1313	1538	1642	1643	1673	1675	1799
1825	1826	2289	2292	2309	2327	2328				

1931 to 1940

56	57	59	60	61	62	66	179	229	285	344
375	387	398	399	419	420	471	491	498	625	628
666	694	730	731	732	777	808	809	810	811	841
842	947	948	999	1024	1030	1031	1150	1152	1273	1292
1293	1315	1317	1319	1320	1419	1427	1497	1607	1775	1925
1946	1951	1953	1954	1990	1994	1995	2122	2172	2262	2290
2307	2331	2424								

1941 to 1950

18	20	21	22	36	37	38	67	69	74	208
227	379	381	382	400	401	408	409	410	411	412
413	414	456	522	528	546	555	556	567	570	588
590	591	597	603	605	624	627	645	663	664	665
670	671	672	733	734	736	737	738	745	746	764
781	787	843	847	848	850	852	853	856	861	873
933	934	949	953	959	963	989	1105	1108	1109	1110
1158	1159	1160	1226	1227	1228	1229	1230	1259	1260	1275
1276	1280	1304	1306	1324	1325	1362	1363	1364	1365	1403
1404	1406	1407	1408	1431	1432	1433	1453	1456	1466	1467
1482	1491	1498	1500	1553	1556	1561	1620	1655	1713	1757
1764	1765	1766	1767	1768	1769	1770	1771	1784	1790	1814
1815	1817	1835	1849	1850	1851	1853	1873	1889	1912	1928
1929	1947	1948	1949	1950	1955	1964	1969	1971	1972	1973
1974	1975	1979	1980	1981	1982	1983	1996	1997	1998	2000
2001	2033	2038	2039	2061	2062	2063	2064	2078	2082	2128
2264	2291	2299	2304	2308	2321	2326	2329	2340	2361	2362
2364	2365	2366	2367	2371	2372	2373	2381	2388	2389	2394
2404	2405	2406	2407	2409	2410	2411				

1951 to 1960

27	28	34	81	125	127	141	221	251	292	358
359	360	361	363	403	415	416	418	479	482	492
512	521	542	547	568	569	587	602	638	644	679
704	739	743	765	776	796	857	860	871	950	990
1004	1044	1067	1068	1069	1070	1096	1107	1112	1126	1169
1231	1238	1281	1288	1290	1326	1366	1367	1369	1375	1397
1398	1401	1402	1405	1416	1417	1418	1430	1436	1437	1439
1480	1481	1554	1625	1649	1685	1691	1736	1742	1743	1745
1751	1752	1816	1940	1945	1976	2056	2086	2087	2155	2228
2315	2318	2336	2337	2338	2363	2384	2390	2393	2396	2432
2433										

1961 to 1970

84	86	124	126	147	148	150	222	235	236	247
300	302	366	367	368	369	371	439	460	495	500
509	577	695	766	837	849	923	927	966	977	993
1014	1043	1057	1071	1162	1179	1180	1189	1190	1194	1232
1240	1289	1294	1295	1341	1426	1555	1579	1599	1644	1646
1647	1648	1650	1703	1719	1747	1749	1750	1772	1791	1838
1886	1916	1924	1952	2013	2048	2049	2055	2057	2058	2059
2200	2226	2286	2296	2310	2346					

1971 to 1980

17	88	89	92	93	95	123	130	131	207	209
210	211	212	226	250	301	308	309	330	348	349
355	373	386	422	438	444	459	490	508	516	548
565	566	574	575	576	604	606	682	756	759	760
769	772	773	795	798	816	829	931	986	991	994
995	996	997	1055	1182	1186	1196	1237	1241	1299	1300
1301	1302	1343	1348	1376	1414	1450	1474	1479	1575	1576
1577	1580	1581	1583	1645	1652	1657	1662	1690	1692	1735
1760	1761	1762	1812	1820	1841	1874	1890	1904	1908	1967
2005	2012	2014	2015	2016	2026	2050	2051	2052	2067	2068
2083	2085	2157	2159	2183	2227	2243	2268	2311	2332	2333
2334	2349	2350	2351	2417	2418	2423	2429	2452		

South America

1941 to 1950

1200

1951 to 1960

688

Worldwide

1971 to 1980

97

General Literature

Worldwide

1971 to 1980

1885

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